

Application No. 10/706,715
Amendment dated September 14, 2007
Reply to Office Action of May 4, 2007

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A surgical ligation clip for ligating a fluid carrying structure, said clip comprising:
 - a mid-longitudinal axis, a distal end, a proximal end opposite said distal end, and a length between said distal and proximal ends;
 - an upper support member oriented generally along the mid-longitudinal axis of said clip;
 - a lower support member oriented generally along the mid-longitudinal axis of said clip; and
 - a connector at said proximal end of said clip having a width in a first plane generally parallel to the mid-longitudinal axis, said connector joining said upper and lower support members, said clip being formed of a single piece of wire having a first free end and a second free end, each of said first and second free ends terminating proximate said proximal end, wherein adjacent said distal end of said clip at least one of said upper support member and said lower support member has a width in a second plane generally parallel to the first plane greater than said width of said connector.
2. (currently amended) The clip of claim 1, wherein said wire has a maximum diameter of less than or equal to 1.0 mm.
3. (original) The clip of claim 1, wherein said connector is adapted to bias said upper and lower support members toward one another in a closed position.
4. (original) The clip of claim 1, wherein said connector is adapted to apply a force to said upper and lower support members to bias said upper and lower support members toward one another in a closed position, the force being greater than

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that needed to move said upper and lower members into contact with one another.

5. (original) The clip of claim 1, wherein said connector includes a coil having an interior.
6. (original) The clip of claim 5, wherein said first end and said second end each terminate proximate said interior of said coil.
7. (original) The clip of claim 1, wherein said upper and lower support members each include a loop at said distal end.
8. (original) The clip of claim 1, wherein said upper and lower support members each have two parallel longitudinal members with a recess therebetween, said longitudinal members of said upper support member being adapted to generally overlie said longitudinal members of said lower members.
9. (original) The clip of claim 8, wherein said longitudinal members of at least one of said upper and lower members extend along a substantial portion of the length of said clip.
10. (original) The clip of claim 1, in combination with a clip applier for applying the clip to the fluid carrying structure.
11. (original) The clip of claim 10, wherein said clip applier includes a magazine adapted to hold a plurality of clips.
12. (currently amended) A surgical ligation clip for ligating a fluid carrying structure, said clip comprising:
 - a mid-longitudinal axis, a distal end, a proximal end opposite said distal end, and a length between said distal and proximal ends;
 - an upper support member oriented generally along the mid-longitudinal axis of said clip between said proximal and distal ends of said clip;
 - a lower support member opposite said upper support member in a vertical plane parallel to the mid-longitudinal axis, said lower support member being

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oriented generally along the mid-longitudinal axis of said clip between said proximal and distal ends of said clip; and

a connector at said proximal end of said clip having a width in a first plane generally parallel to the mid-longitudinal axis, said connector joining said upper and lower support members, said clip being formed of a single piece of material having a first free end and a second free end, each of said first and second free ends terminating proximate said proximal end, at least one of said free ends facing in a direction that is at least one of transverse to the mid-longitudinal axis of said clip and away from said proximal end of said clip, wherein adjacent said distal end of said clip at least one of said upper support member and said lower support member has a width in a second plane generally parallel to the first plane greater than said width of said connector.

13. (original) The clip of claim 12, wherein at least one of said free ends faces a direction generally transverse to the mid-longitudinal axis of said clip.
14. (original) The clip of claim 12, wherein at least one of said free ends faces generally towards said distal end of said clip.
15. (original) The clip of claim 12, wherein said first end and said second end each face away from said proximal end of said clip.
16. (original) The clip of claim 12, wherein said connector is adapted to bias said upper and lower support members toward one another in a closed position.
17. (original) The clip of claim 12, wherein said connector is adapted to apply a force to said upper and lower support members to bias said upper and lower support members toward one another in a closed position, the force being greater than that needed to move said upper and lower members into contact with one another.
18. (original) The clip of claim 12, wherein said connector includes a coil having an interior.

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19. (original) The clip of claim 18, wherein said first end and said second end each terminate proximate said interior of said coil.
20. (original) The clip of claim 12, wherein said upper and lower support members each include a loop at said distal end.
21. (original) The clip of claim 12, wherein said upper and lower support members each have two parallel longitudinal members with a recess therebetween, said longitudinal members of said upper support member being adapted to generally overlie said longitudinal members of said lower members.
22. (original) The clip of claim 21, wherein said longitudinal members of at least one of said upper and lower members extend along a substantial portion of the length of said clip.
23. (original) The clip of claim 12, in combination with a clip applier for applying the clip to the fluid carrying structure.
24. (original) The clip of claim 23, wherein said clip applier includes a magazine adapted to hold a plurality of clips.

Claims 25 and 26 (cancelled).

27. (new) The clip of claim 1, wherein at least one of said upper support member and said lower support member is enlarged adjacent said distal end of said clip.
28. (new) The clip of claim 1, wherein each of said upper support member and said lower support member is formed of a first leg and a second leg.
29. (new) The clip of claim 28, wherein said first leg and said second leg extend generally parallel to one another from said connector.
30. (new) The clip of claim 29, wherein a gap is formed between said first leg and said second leg, and said gap has a width approximately equal to the diameter of said wire.
31. (new) The clip of claim 12, wherein at least one of said upper support member and said lower support member is enlarged adjacent said distal end of said clip.

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32. (new) The clip of claim 12, wherein each of said upper support member and said lower support member is formed of a first leg and a second leg.
33. (new) The clip of claim 32, wherein said first leg and said second leg extend generally parallel to one another from said connector.
34. (new) The clip of claim 33, wherein a gap is formed between said first leg and said second leg, and said gap has a width approximately equal to the diameter of said wire.